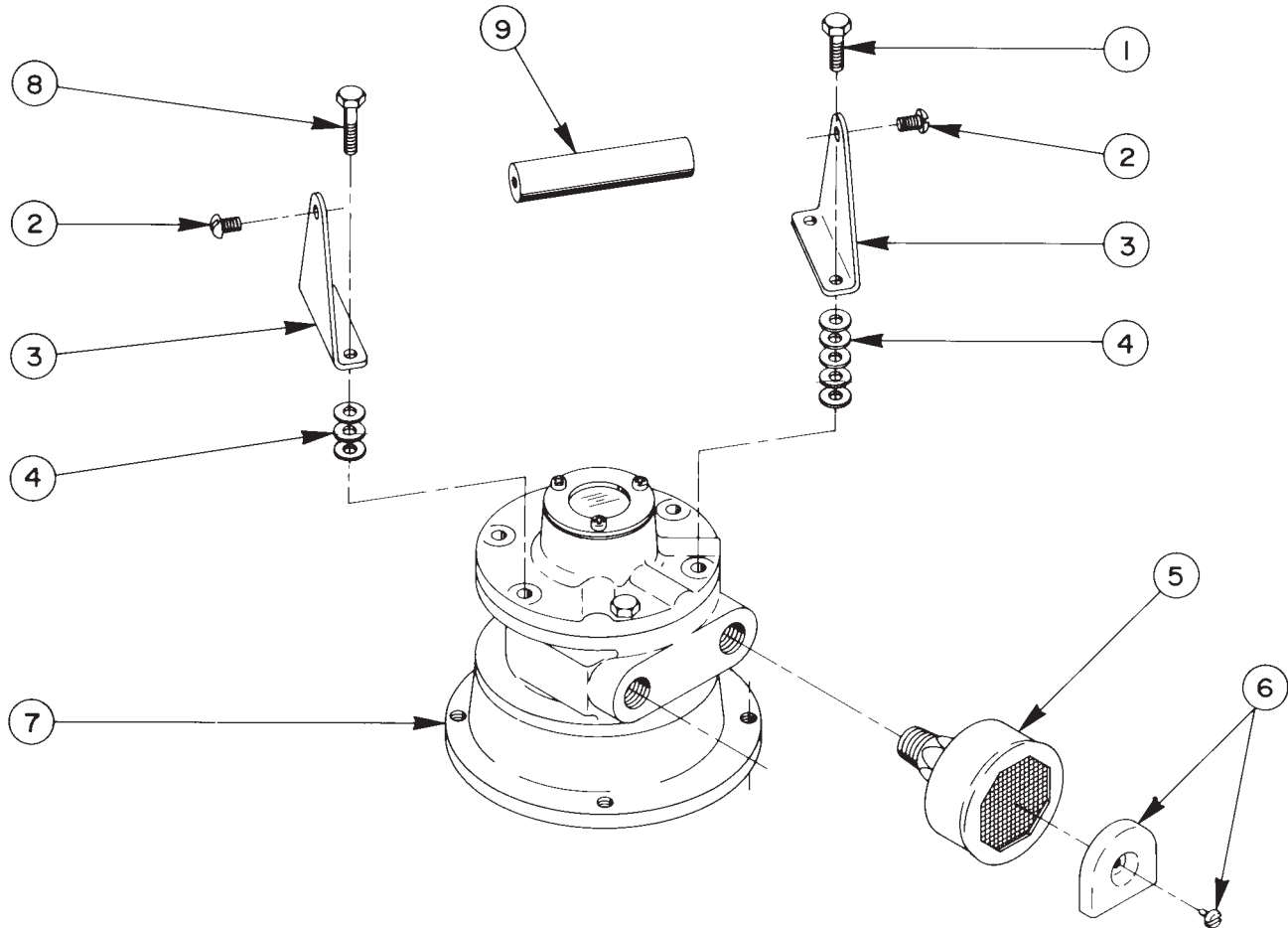


AIR HYDRAULIC PUMP**AIR MOTOR ASSEMBLY**

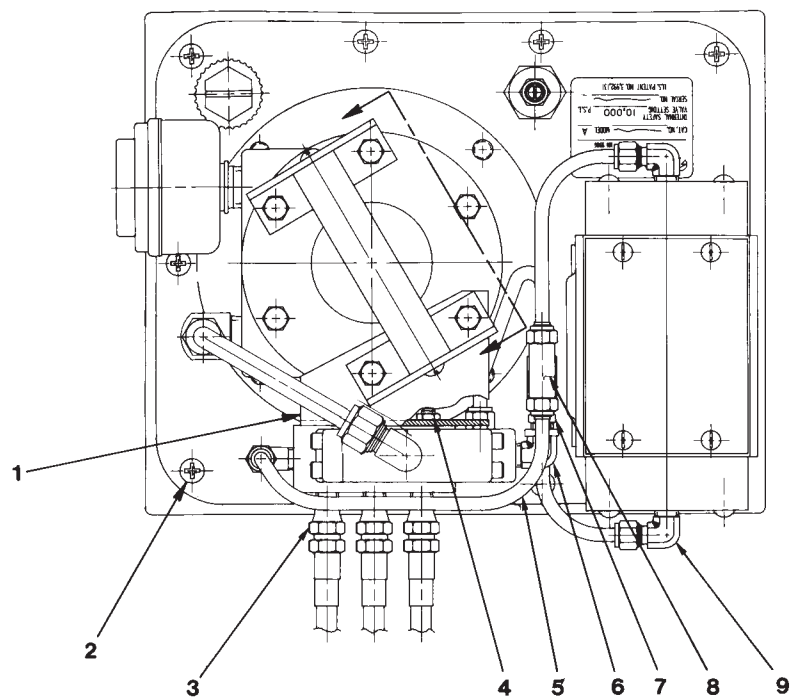
Item No.	Part No.	No. Req'd	Description
1	10014	1	Cap Screw (1/4-28 UNF X 1" Lg.)
2	10174	2	Machine Screw (1/4-20 UNC X 1/2 Lg.)
3	33808	2	Handle Bracket
4	12719	16	Washer (For 1/4 bolt)
5	13966	1	Muffler
6	205505	1	Deflector
†7	14717	1	Air Motor
8	10018	3	Cap Screw (1/4-28 UNF X 1-1/4 Lg.)
9	28158	1	Handle

(Items marked with a dagger (†) are contained in Repair Kit 252100.)

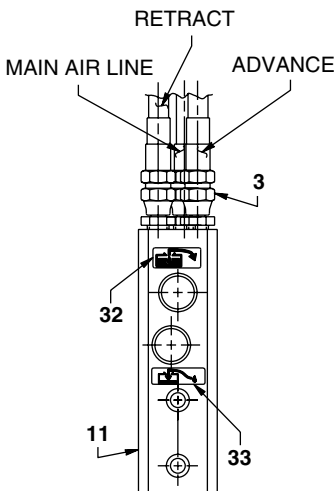
Sheet No. 1 of 4

Rev. 3 Date: 20 May 1997

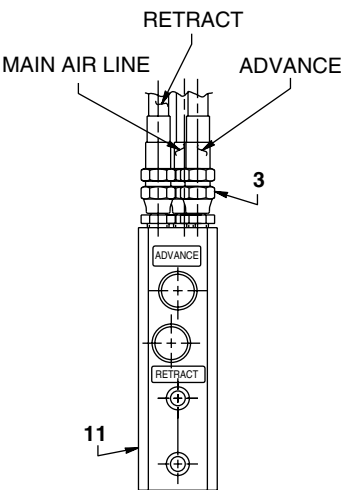
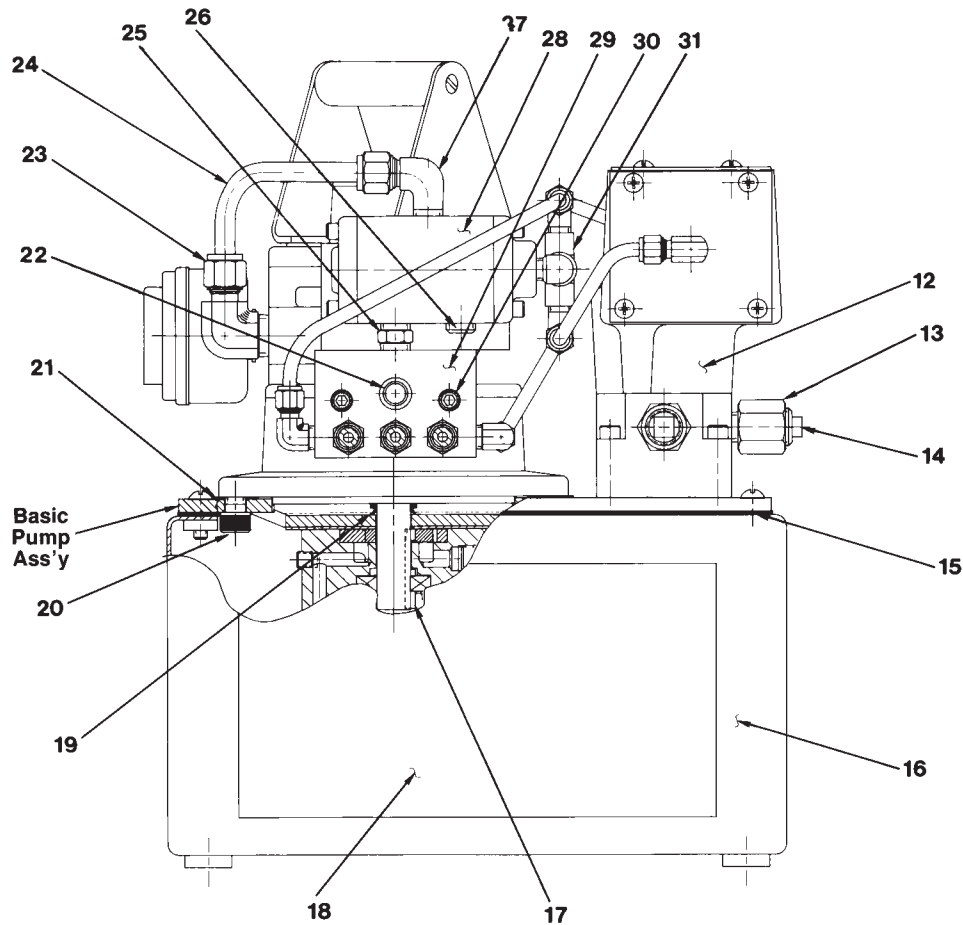
GENERAL ASSEMBLY



For PA464R



For PA46R



Item No.	Part No.	No. Req'd	Description
1	308675	1	Mounting Bracket
2	10177	10	Machine Screw (1/4-20 UNC X 3/4 Lg.)
3	208218	6	Straight Fitting (For PA464R)
4	10199	2	Nut (1/4-20 UNC)
5	15883	2.3 ft.	Plastic Tubing
6	13229	1	90° Elbow Fitting
7	11421	1	Straight Fitting
8	15378	2	Tee Fitting
9	252653	4	90° Elbow Fitting
10	45052	1	Hose Assembly (12 feet; For PA464R)
11	421265	1	Air Operated Hand Control (See Form #100426; For PA464R)
12	9594	1	Valve Assembly (See Form #100542; For PA464R)
13	9689	2	Straight Fitting
14	13273	2	Plastic Plug
15	40164	1	Cover Plate Gasket (1/16 thick)
16	40063OR9	1	Reservoir (For PA464R)
17	214097	1	Key
18	309219	2	Trade Name Decal (For PA464R)
19	213674	1	V-ring Packing (Nitrile; For PA464R)
	215438	1	V-ring Packing (Viton; For PA464R)
	251291	1	V-ring Packing (EPR; For PA464R)
20	15187	4	Cap Screw (3/8-16 UNC X 5/8 Lg.; Torque to 90/100 in. lbs.)
21	307425	1	Motor Gasket
22	14794	1	Plastic Cap
23	17636	1	90° Elbow Fitting
24	215639	1	Copper Tubing
25	16494	1	Straight Fitting
26	10479	1	Pipe Plug (1/4 NPTF)
27	10665	1	90° Elbow Fitting
28	212404	1	Air Operated Valve
29	37593	1	Air Manifold Block
30	10022	2	Cap Screw (1/4-20 UNC X 1-1/2 Lg.)
31	212405	1	Shuttle Valve
32	251759	1	Instruction Decal (Pump; For PA464R)
33	251760	1	Instruction Decal (Release; For PA464R)

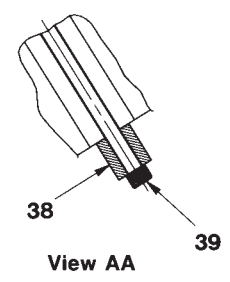
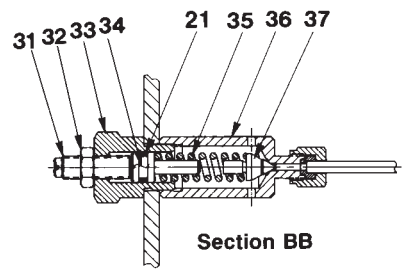
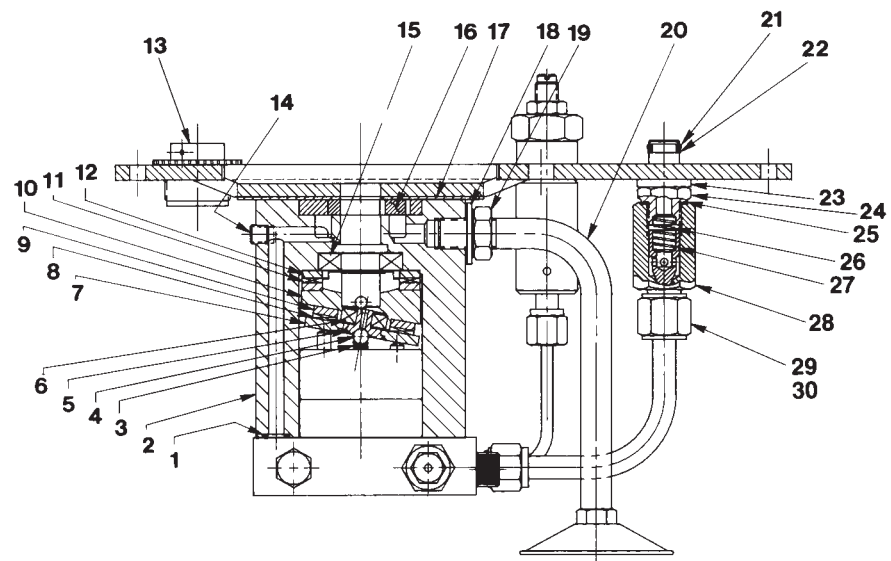
Refer to any operating instructions included with this product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected. **Therefore: Use only genuine Power Team replacement parts!**

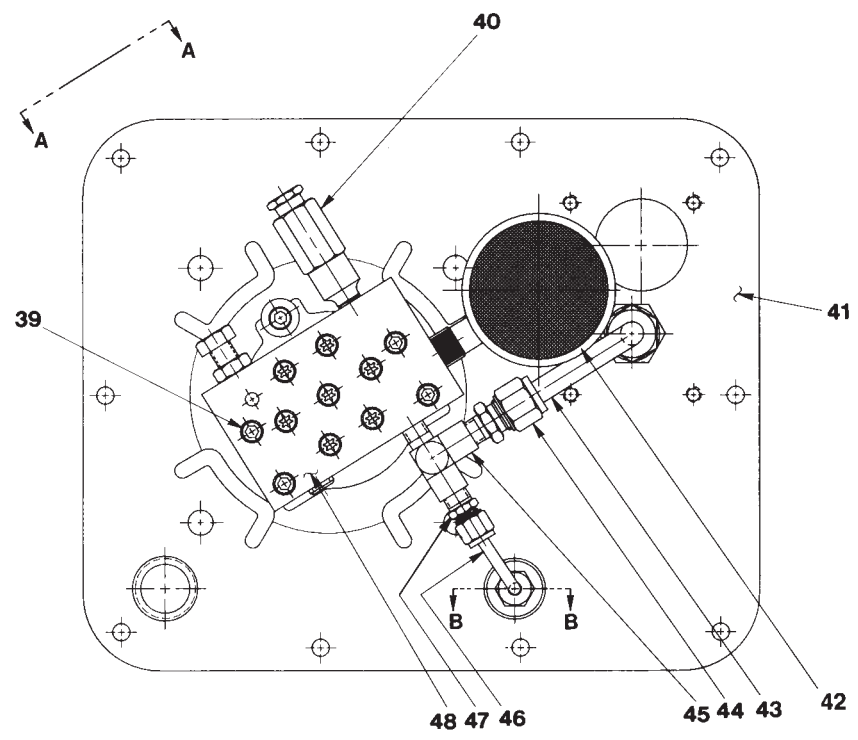
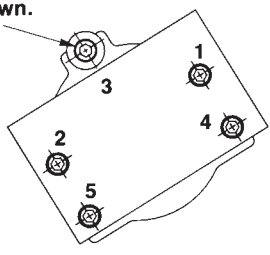
Additional questions can be directed to our Technical Services Department.

Note: Shaded areas reflect last revision(s) made to this form.

BASIC PUMP ASSEMBLY

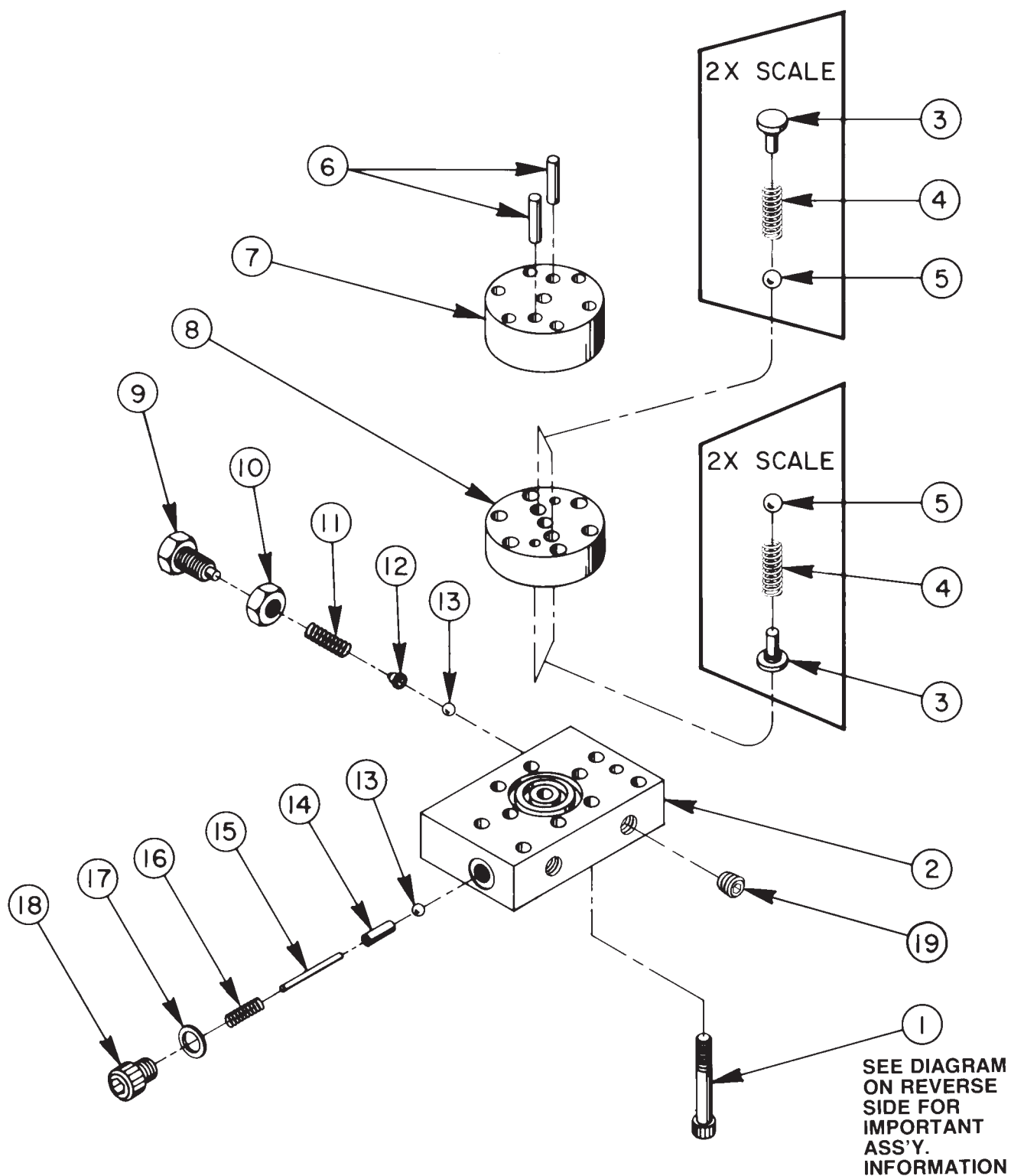


Cross torque
in 20/30 in. lbs. increments
in order shown.



Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	10267	1	O-ring (7/16 X 5/16 X 1/16; Nitrile; For P464R)	23	21484	1	Spacer
	18974	1	O-ring (7/16 X 5/16 X 1/16; Viton; For P464R)	24	214762	1	Valve Connector (Torque valve connector [214762] to 20/30 ft. lbs. into cover plate [47404]; hold valve connector [214762] & torque check valve body [201879] & tube nut [10431] to 40/50 ft. lbs.)
	13472	1	O-ring (7/16 X 5/16 X 1/16; EPR; For P464R)	25	10261	1	Copper Washer (3/4 X 19/32 X 1/32)
2	52883	1	Pump Body	26	10425	1	Compression Spring (3/8 O.D. X 3/4 Lg.)
3	16320	1	Compression Spring (1/4 O.D. X 3/4 Lg.)	27	20771	1	Poppet
4	10375	1	Steel Ball (1/4 Dia.)	28	201879	1	Check Valve Body
5	23547	1	Bearing Top Plate	29	10430	1	Tube Sleeve
6	11814	1	Ball Bearing	30	10431	1	Tube Nut
7	23548	1	Top Plate	31	22362	1	Valve Adjusting Screw
8	15431	1	Needle Thrust Bearing	32	10386	1	Jam Nut (3/8-24UNF)
9	15432	1	Bearing Race	33	21305	1	Valve Cap
10	35271	1	Angle Plate	34	21306	1	Spring Guide
11	11228	1	Needle Thrust Bearing	35	10495	1	Compression Spring (1/2 O.D. X 1-5/8 Lg.)
12	11227	2	Bearing Race	36	22361	1	Valve Body
13	213706	1	Filler Cap	37	21046	1	Valve Stem
14	11084	1	Pipe Plug (1/16 NPTF; Torque to 35/45 in. lbs. oiled)	38	214720	1	Spacer
15	15695	1	Ball Bearing	39	15642	5	Cap Screw (1/4-20 X 5" Lg.; Torque to 55/65 in. lbs.)
16	15693	1	Gerotor Set	40	21278	1	Relief Valve (Set at 10,100/10,700 PSI; For PA464R)
17	307296	1	Wear Plate	41	47404BK2	1	Cover Plate
18	213709	1	Seal Washer (Nitrile; Turn on; do not push on; For PA464R)	42	29682	1	Strainer
	215633	1	Seal Washer (Viton; Turn on; do not push on; For PA464R)	43	214866	1	Oil Line Tube
	215634	1	Seal Washer (EPR; Turn on; do not push on; For PA464R)	44	12696	1	Straight Fitting
19	10390	1	Jam Nut (1/2-20 UNF)	45	18969	1	Tee Fitting
20	213686	1	Intake Tube	46	214868	1	Regulator Oil Line Ass'y
21	10268	2	O-ring (1/2 X 3/8 X 1/16; Nitrile; For PA464R)	47	14844	1	Straight Fitting
	19775	2	O-ring (1/2 X 3/8 X 1/16; Viton; For PA464R)	48	36922	1	High Pressure Pump Ass'y (See back sheet 3 of 4)
	17716	2	O-ring (1/2 X 3/8 X 1/16; EPR; For PA464R)				
22	11863	1	Backup Washer				

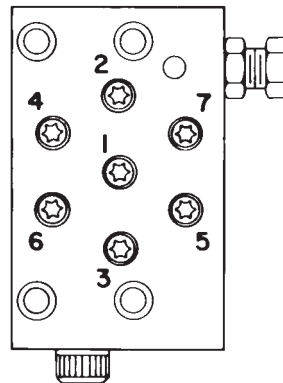
HIGH PRESSURE PUMP ASSEMBLY



Item No.	Part No.	No. Req'd	Description
1	*16747	7	Torx Drive Cap Screw (See diagram below)
2	*36912	1	Pump End Plate
3	*24549	4	Valve Guide
4	*10445	4	Compression Spring (5/32 O.D. X 3/4 Lg.)
5	*12223	4	Steel Ball (3/16 Dia.)
6	*20775	2	Piston
7	*41006	1	Pump Barrel
8	*41007	1	Valve Head
9	200797	1	Adjusting Screw
10	10386	1	Jam Nut (3/8-24 UNF)
11	15691	1	Compression Spring (1/4 O.D X 5/8 Lg.)
12	200796	1	Adapter, Spring & Ball
13	10375	2	Steel Ball (1/4 Dia.)
14	201998	1	Sleeve
15	12571	1	Roll Pin (1/8 Dia. X 1-3/8 Lg.)
16	14431	1	Compression Spring (3/16 O.D. X 3/4 Lg.)
17	12042	1	Copper Washer (9/16 X 3/8 X 1/32)
18	29690	1	Cap Screw (Torque to 180 in. lbs.)
19	10427	1	Pipe Plug (1/8 NPTF)

Consult factory when replacing items marked with an asterisk (*).

BOLT TIGHTENING SEQUENCE



NOTE: Assemble in sequence shown. Lubricate under head and on threads. Torque to 170 in lbs.

HYDRAULIC SCHEMATIC

